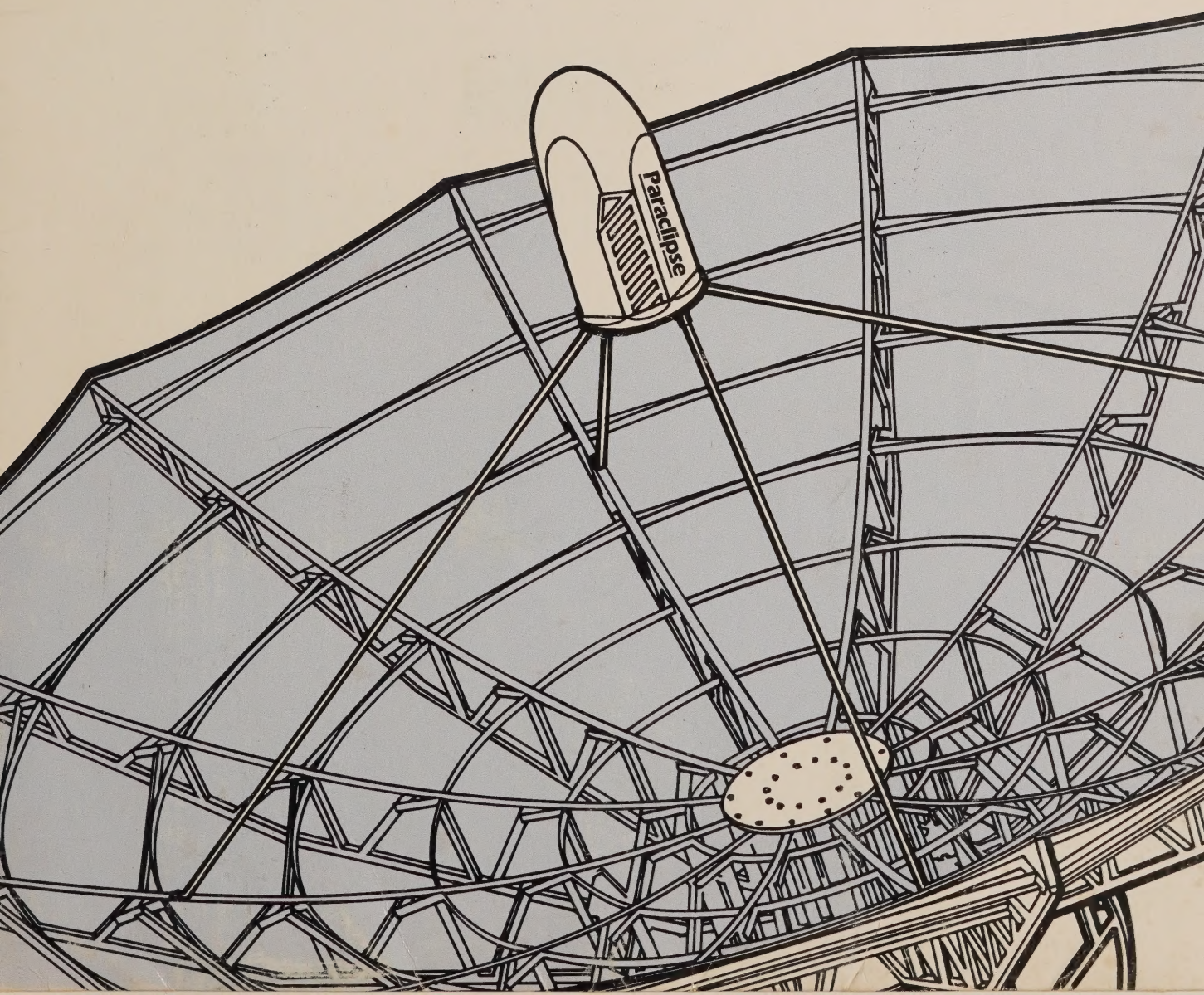
Paraclipse®

HIGH PERFORMANCE ANTENNAS

Your Complete Reflector Source

THE WORLD LEADER IN SATELLITE ANTENNA TECHNOLOGY



Product Lines and Brochures

Product Lines
and
Brochures

Arthur C. Clarke, NASA

and scores of informed professionals choose

PARACLIPSE

They choose **Paraclipse** because all models in the line are built to endure hostile weather conditions in places where replacement of lesser antennas involves costly and inconvenient delays - many of our antennas withstood hurricanes. They choose **Paraclipse** because all models offer parabolic integrity - at very affordable prices. They choose **Paraclipse** because our company - one of the few pioneers still in business - stands firmly behind the name.

The **Paraclipse** family of antenna systems are available in three different series.

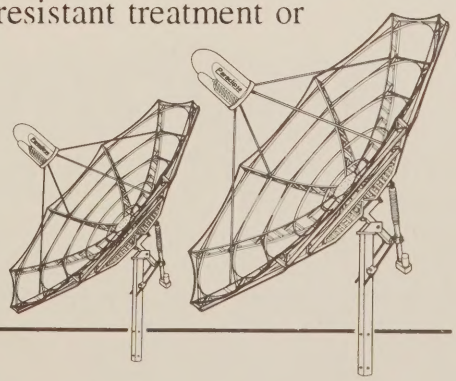
The **Classic** series mesh antenna is extremely sturdy and available in 10' (3.0 m), 12' (3.8 m), 14.5' (4.5 m), and 16' (4.8 m) sizes. A Polar T Mount is offered on the UPS Shippable 10' model. The 12' and 14.5' models are available with either a Horizon-to-Horizon Chain Drive Mount or Polar T, while the 16' Classic comes with a double chain H-H drive.

The **Hydro** series one piece aluminum antenna is extremely accurate and is available in two sizes, 6' (1.8 m) and 7.5' (2.4 m). The 6' model comes with your choice of a Polar Mount or low cost Patio Mount. A Polar Mount or Horizon-to-Horizon Mount is offered on the 7.5' size.

The **Eclipse** series is an inexpensive mesh antenna available in either 10' (3.0 m) or 12' (3.8 m) sizes. A Polar Mount is offered on both the 10' and 12' while a Horizon-to-Horizon Mount is an option on the 12' model. The Eclipse 10' and 12' with Polar Mount may be shipped UPS.

All **Paraclipse** antennas are protected with a corrosion-resistant treatment or baked-on, powder coat finish.

Perhaps you should consider joining those astute professionals who appreciate the benefits of Paraclipse quality and value.



Paraclipse

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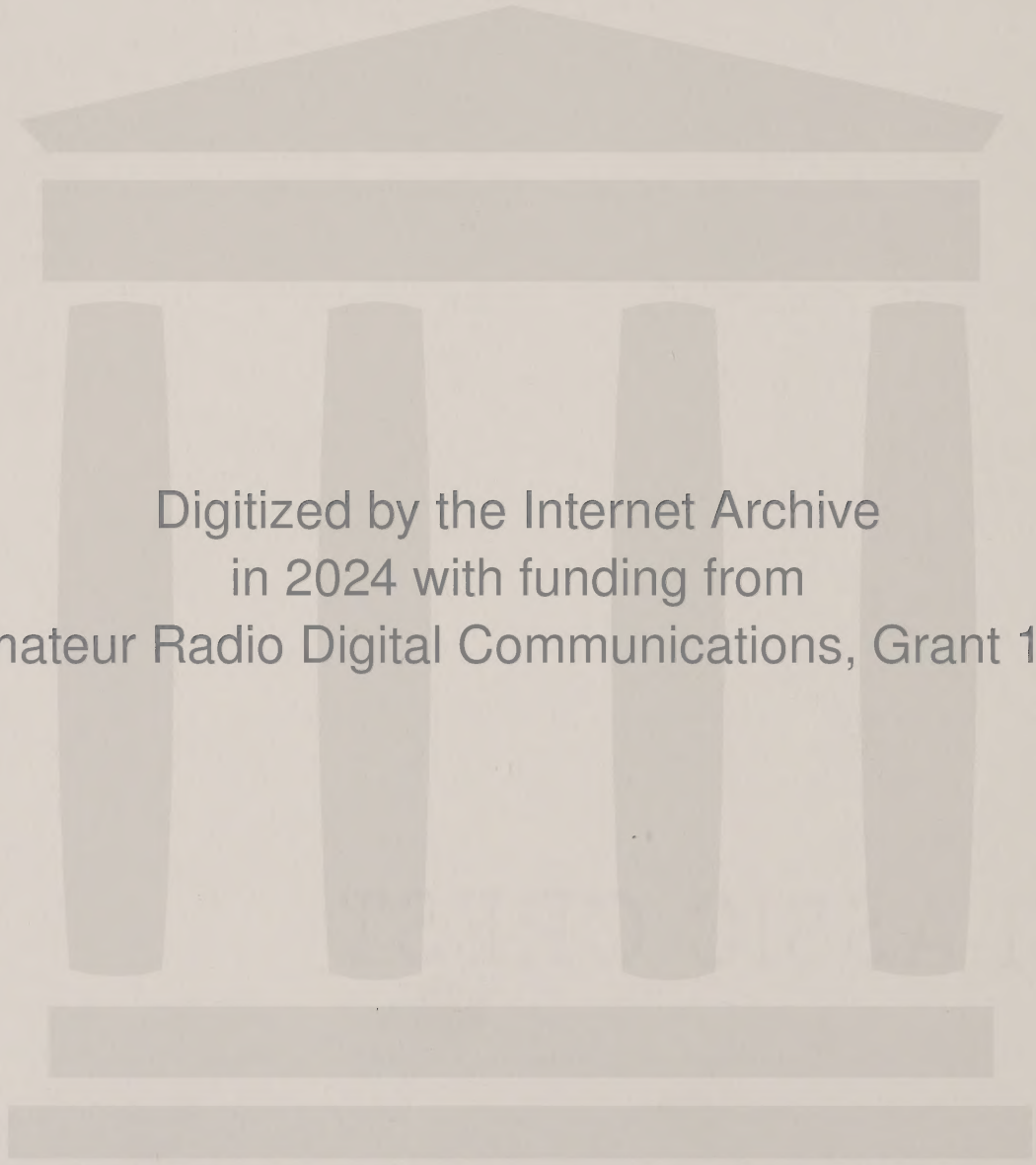

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Hydro – 6' & 7.5' Series:

* Smaller backyard line of antennas with the strength and accuracy for commercial use.

* Excellent in T.I. areas.

* Excellent for C and Ku Band transmission with unusually good Ku Band reception.

* Both assemble in under one hour.

* The six foot (6') Hydro is available in Newtech Polar mount and Patio mount.

* The 7.5' Hydro is available in both H-H and two different types of polar mounts - the Newtech Polar and the EP Mount.

* Both come fully painted in Smoke Blue *(Powder Coating).*

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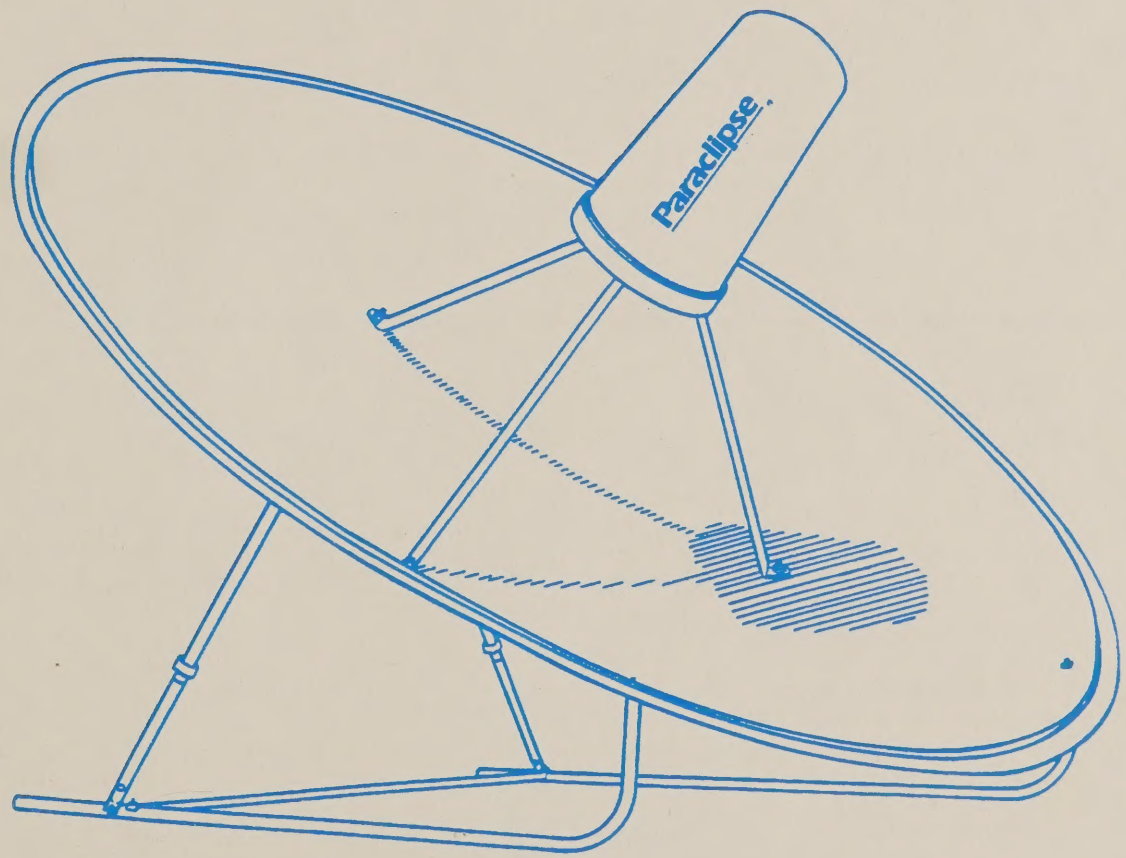

Paraclipse®

6'(1.8m) PATIO MOUNT

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Low Cost Patio Mount Antenna

With much focus now being put on the Galaxy Five Satellite, Paraclipse, Inc. has just introduced the Patio Mount for the Paraclipse six foot (1.8 meter) antenna.

The Patio Mount consists of two ground runners that attach to the reflector. Two adjustment tubes then attach from the ground runners to the back of the reflector which will allow for elevation adjustment.

Three feed support poles run from the reflector to the feed.

The installation is simple and fast which allows either the dealer or home owner to put it together.

The Paraclipse six foot (1.8 meter) antenna with Patio Mount is available in either solid or perforated.

Paraclipse engineers are continuing to develop new antennas and mounts that will meet the demands of the future; and at the same time, continue the Paraclipse tradition of quality, performance, and accuracy.

6'(1.8m) SPECIFICATIONS	
C Band gain (Mid band)	35.9 dBi
KU Band gain (Mid band)	44.9 dBi
C Band efficiency (Mid band)	63%
2 degrees Spacing approved (C & KU)	Yes (with opposite polarization of satellites)
C Band 3dB beam width	2.9 degrees
C Band first side lobe	-21.0 dB
C Band antenna temperature	58 degrees K
F/D	0.335
Focal Point (see notes)	23.125"
Reflector Weight	35 pounds (15.9 kg)
Mount Weight	15 pounds (6.8 kg)

NOTES: Different feed horn designs call for special mounting, focal requirements, and extra accessories. Call for correct application or follow manufacturer's suggestions.

Paraclipse.

Paraclipse Inc.
2271 29th Avenue East
Columbus, Nebraska 68601
United States of America
(402) 563-3625

40947-9211-2

Eclipse – 10' & 12' Series:

* Economy Models for the price conscious.
* UPS Shippable.
* Both feature oversized ribs for the strongest UPS Shippables in the industry.
* Both assemble in a little over an hour.
* Both have an adjustable polar mount.
* Both standardly come fully painted Smoke Blue *(Powder Coating)*.
* The Eclipse Series offers your customers the greatest variety of custom features available in this industry. Your customer can actually design this Series to meet his market needs and price point. Painted or, like most Classics sold, unpainted. Equipped for heavy weather or made less costly for normal weather. Tweaked for Ku or with our superior parabolic integrity for cross use.
* All steel parts are always weather protected with our powder coated, oven-baked finish.
* Horizon to Horizon Mount offered on 12' model only.

10 Reasons to Choose Paraclipse

10 REASONS TO CHOOSE PARACLIPSE

1. DISTINGUISHED HISTORY.

Since the beginning in 1981, Paraclipse has built a reputation as a strong and dependable company manufacturing the finest antennas in the world. We were here for you in the past, we will be here for you in the future.

2. WORLD LEADER WITH NEW INNOVATIONS IN THE ANTENNA INDUSTRY.

Paraclipse has led the world over the years with a series of firsts in the TVRO industry. For example:

A. Paraclipse was the first to manufacture a wire mesh antenna for home use. It all began with what is now called the Classic line. The Classic model, with its trussed rib design, is the strongest antenna of its type in the world standing up to nearly all types of weather conditions.

B. In the United States, Paraclipse was the first to manufacture Hydroformed antennas. The Paraclipse Hydro is unbeatable in receiving both C and Ku band signals with its perfect parabola.

C. Paraclipse is the only company that makes an all aluminum antenna. The chain drive mounted Classic mesh antennas are ideal for marine salt air or anywhere rust and corrosion are a problem.

3. EXTRA CARE IN PROTECTING OUR ANTENNAS FROM THE ELEMENTS.

Paraclipse antennas are protected in two ways:

A. Baked-on powder-coat finish.
The original Paraclipse plant featured the largest powder-coating operation in Northern California. Now that the plant is in Nebraska, we have one of the largest powder-coating operations in the western half of the United States.

B. Corrosion resistant treatment.
For years, the Paraclipse unpainted Classic antennas have been easily recognizable in the field because of their aluminum silver appearance. The unpainted aluminum parts are dipped in a special corrosion resistant chemical that seals and protects them for years of trouble free performance.

4. LOW SHIPPING COSTS.

The Paraclipse shipping department is constantly looking for new and more efficient ways to load containers. The less wasted space, the more product we can ship holding down overall costs.

5. DISTRIBUTOR PROTECTION.

When you sign on to become a Paraclipse distributor, we protect your territory. We do not sell to dealers or to just anyone else that comes along. You can count on Paraclipse to work with you hand in hand as a partner. We will give you the best possible prices. We will back you up with whatever technical and marketing assistance you may need.

6. RESEARCH AND DEVELOPMENT.

Paraclipse engineers are continually developing new ideas to make Paraclipse antennas even better. When the need for a more economical mesh antenna arose, our engineers came up with the Eclipse 10' and 12' with a polar mount. Not satisfied to stop with a polar mount for the Eclipse, Paraclipse added an option for a Horizon-to-Horizon Mount for the Eclipse 12'. As needs and designs change, Paraclipse never loses sight of those customers who purchased our antennas years ago. We have devised a number of upgrade kits so that our past customers may bring their old antennas up to meet the challenges of today's standards.

7. SPECIAL OPTIONS.

Paraclipse keeps coming up with new innovations designed for special situations or unique problems. Options such as galvanizing, stainless steel hardware, and the extreme weather kit help Paraclipse antennas stand up to some of the worst conditions nature can throw at them.

8. QUALITY PEOPLE AT PARACLIPSE.

From top level management, to manufacturing, to the people on the paint line and packaging department, to those in shipping, you will find quality professionals who take pride in their jobs. They are dedicated to producing the best product possible.

9. QUALITY, PERFORMANCE, AND PRICE.

Our goal at Paraclipse is to build the strongest, most accurate, and dependable antennas in the world at affordable prices. You may find Paraclipse antennas to be just a bit more expensive than some of our competitors, but a Paraclipse antenna will give its owner years and years of unmatched trouble-free quality and performance.

10. SATISFIED CUSTOMERS AROUND THE WORLD.

Our list of satisfied customers range from the average homeowner to some very impressive commercial users. The list includes:

A. NASA. Both at Cape Canaveral in Florida and the Space Center in Houston. American Space Shuttles are tracked by Paraclipse antennas.
B. National Weather Service
C. CBS Radio/TV-New York
D. United States Coast Guard
E. Satellite Systems Corporation serving approximately 45 Embassies globally.
F. Over 100 institutions of higher learning including universities such as Stanford, California State, Princeton, Brown, and Creighton.

PARACLIPSE: THE NAME SPEAKS FOR ITSELF.

Paraclipse Company History

PARACLIPSE

Our History

The company, as it is seen today, is the result of innovative approaches to antenna manufacturing by two diverse companies, and the subsequent merger in March 1990 creating **Paraclipse, Inc.,** a Nebraska corporation. Paraclipse is one of the most respected names in the satellite industry throughout the world.

About the two companies:

Paraclipse

In early 1981, in a double garage in Redding, California, an antenna company was started to produce a product which had been thought impossible until then; an extremely accurate, mesh paraboloid for the home reception market; TVRO. The company operated under the name Paradigm Manufacturing, Inc., and adopted for its trademark on its finished products the mark: **Paraclipse**.

From what started as a steel mesh reflector supported by fiber glass ribs, there soon emerged an aluminum mesh reflector supported by extruded aluminum truss ribs. This antenna met with ready market acceptance since it was easy to ship, could withstand weather conditions that would destroy other antennas, and met quality and price standards consumers were demanding.

From producing twenty antennas per month in the beginning, the company eventually had a monthly capacity of fifteen thousand units. The company expanded from two garages to a plant of 142,000 square feet in six buildings on a five acre site.

The product line increased from the original twelve foot model to include nine, ten, fourteen and a half, and sixteen foot models in various configurations. The quality and durability of Paraclipse antennas took them beyond the home market into CATV, master antenna, commercial communications, government applications and 'by name' demand throughout the world.

Prior to October, 1985, the satellite signals of entertainment interest were being broadcast in the clear to all receivers; that is to say, they were unscrambled. In that month the first of the premium movie channels announced that they would start scrambling their signals in early 1986 and the TVRO market went into a tail

spin. For a period of time, there was a substantial question of whether home decoders would be available at all since scrambling was intended to protect cable companies. Then, as decoders became available to the home market, the price of the hardware was prohibitive; as was the price charged for programming.

Paraclipse suffered greatly, reducing its space substantially, and cutting employment by about eighty percent in a single month. However, the company enjoyed a preeminent position in the industry that enabled it to work off inventories in relatively short order. Reserves and a continuing demand for the Paraclipse name allowed the company to survive while a majority of other antenna manufacturers failed.

Video Satellite Corporation

Video Satellite Corporation was organized as a Nebraska corporation on November 10, 1981, in Columbus, Nebraska. VSC, too, sought to make an innovative contribution to the antenna art; a single piece, extremely accurate metal antenna that would provide commercial quality reception to the TVRO market at an affordable price.

The relatively new TVRO market in 1981 was burdened with a proliferation of fiber glass antenna manufacturers who knew that an accurate paraboloid was required, and made fiber glass their material of choice. That raw material was not particularly easy to work with and varied from batch to batch and supplier to supplier. On the other hand, the tooling was relatively inexpensive, greatly reducing the capital investment required to get into the business. Thus, a lot of people with marginal qualifications in fiberglass, its reaction to atmospheric conditions and its stability in sunlight, jumped into what appeared to be an easy opportunity.

Needless to say, when exposed to the constant expansion and contraction of daily temperature changes, ultraviolet degradation of exposure to sun light; and, the fact that they constituted a blocking barrier to the forces of wind, these antennas soon failed.

Attempts were made to manufacture metal dishes by spinning and stamping processes, but in order to make dishes with enough heft to stand up to nature, the capital investment in machinery capable of working with metals of sufficient thickness was prohibitive.

Thus, the VSC development team had to look outside of the traditional antenna making techniques and turned to the aircraft industry for suggestions. VSC

designed, and had built, its own manufacturing equipment that is unique in the antenna industry. They designed a machine capable of fabricating the most accurate antenna in the market out of a single piece of ninety-six inch diameter aircraft grade aluminum with hydraulic pressures that approach 2,000,000 pounds at set point. Later, a machine was added that produces an antenna by the same process out of either steel or aluminum of seventy-two inches diameter. These are the only two machines in the industry that are capable of producing heavy gauge metal antennas of these diameters that can withstand the most rigorous of conditions, and they do so without supplemental reinforcing structures.

From the beginning, the VSC antennas have been ideally suited for the heartland market of the U.S. The product line was increased to include professional as well as TVRO antennas with several mounting structures to meet differing installation situations.

Innovation within the company was far from over. As the satellite market developed and antennas started springing up everywhere, people became more conscious of the appearance of their installations. To make their antennas more visually appealing, VSC investigated the prospects of perforated designs.

The result is a process that may very well be unique in all of the industry. The result has proven well worth the effort. The antennas have completely retained their accuracy while giving the company's products an attractive, variable appearance unlike any other in the market.

The Combined Company

At first glance, the prospects of the combination of Paraclipse and VSC were apparent. Basically, the two product lines served two different markets. VSC served the heartland and Paraclipse served the perimeter markets in the U.S. and was the most prominent mark in the foreign markets. Paraclipse had manufacturing expertise and experience and facilities for administering a larger operation, and VSC had market know-how and a fresh approach and new ideas to inject into a company in need of those strengths.

All of the products are now known as Paraclipse antennas; the former Paraclipse line is now known as the Classic Series and the former VSC line is now the Hydro Series.

Greater attention has been paid to the international market and, as predicted, the Classic Series has met with increasing acceptance. These antennas have been

specified for U.S. and foreign government and commercial use as well as TVRO, and now, foreign territorial distributorships are being set up on a regular basis. The Pacific Rim, much of the Middle East, the U.K., Nigeria, Cyprus, Egypt, South Africa, France, The Netherlands, Lebanon, Greece, Jordan, and Bulgaria are now covered by territorial agreements. The company estimates that about seventy percent of its production ends up being exported and continues to pursue foreign representation.

The synergism that has resulted from the combination of companies produced the pleasant surprise of broader acceptance of the VSC hydroformed products beyond the heartland market. To begin with, the hydroformed antennas out perform all products in their own size groups as well as antennas in larger size groups. This is because of the extreme accuracy of these dishes. The Hydro six foot antenna out-performs many of the currently popular seven and one-half foot mesh antennas. The Hydro seven and one half foot antenna will out perform many ten foot antennas on the market. The U.S. perimeter markets are prime development grounds for the Hydro Series and will become more so as more powerful satellites are launched.

Pleasantly surprising is the ready international acceptance of the Hydro Series. The company now regularly ships internationally in container loads and there is inquiry from responsible international distributors, with whom the company has had long-standing relations, for increasingly larger quantities.

We have recently introduced a new line, the Eclipse Series. These ten and twelve foot antennas are UPS deliverable (as well as by other couriers) and are the most accurate and strongest such antennas available. These attributes are especially important in international markets where transportation systems are less developed.

The company stays ahead of the trends in the satellite industry. Our engineering and R & D outlook allow us to respond to and, better yet, anticipate market needs. This company singularly led the industry into the smaller seven and one-half foot antennas that are commanding larger market shares today, and we will continue to provide that leadership.

Paraclipse

HYDRO 6' & HYDRO 7.5'

MULTIPLE MOUNT OPTIONS

Outstanding Reception From Any View

Good looks, compact size and picture-perfect reception make the Paraclipse Hydro an excellent choice anywhere—especially in urban and suburban settings where antenna size may be restricted. These precision hydroformed antennas often outperform larger mesh antennas and provide years of trouble-free reception.

MADE IN AMERICA

Paraclipse®

HIGH PERFORMANCE ANTENNAS

Paraclipse

HYDRO 6' & HYDRO 7.5'

Precision Performance

The Hydro reflectors are precision molded through intense water pressure. These hydroformed paraboloids are perfect—free of surface deformities, ripples, flat spots or other irregularities. The result is exceptionally distortion-free performance: C and Ku band reception that matches or exceeds that of larger mesh antennas.

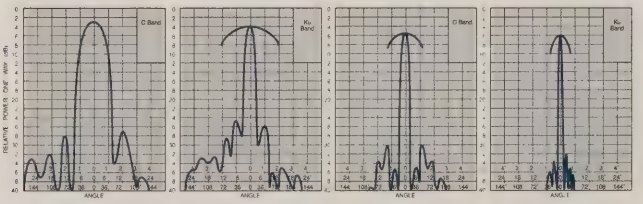
In addition, the Hydro's one-piece construction from heavy-gauge aluminum makes it one of the strongest antennas you can buy. It retains its structural integrity and parabolic shape better than any multi-piece antenna.

The Paraclipse Hydro's exclusive design features:

- One piece, hydroformed reflector.
- Uniform reflector surface.
- Heavy-gauge aluminum antenna adds structural strength.
- All steel parts are sealed and protected with a baked-on, powder-coat finish.
- Power-coat painted aluminum reflector, smoke-blue color standard, tan-color optional.
- Steel-to-aluminum (mount-to-reflector) contact points insulated to prevent corrosion.
- Self-aligning, three-pole, feed-horn support with preset focal distance.

Exceptional Signal Reception

Independent laboratory range test produced symmetrical reflective patterns on both C and Ku bands. This illustrates the precise parabolic surface provided by Paraclipse's exclusive hydroforming process. The Hydro offers exceptional satellite signal identification, even from 2° spaced satellites.



6' C Band | 6' Ku Band | 7.5' C Band | 7.5' Ku Band

Tests performed by Microwave Specialty Corporation.

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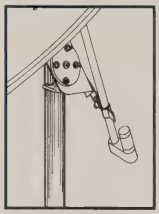
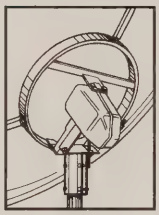


Hydro Newtech Polar Mount (NP)



Tracer 180 Mount

Mounts for Every Application

Hydro Newtech Polar Mount (NP)
Through CAD design, Paraclipse has increased mount strength and simplified construction. Superior mount-to-pole engagement increases long-term stability. Simple-to-set declination uses the proven selectable shim system. Attached elevation scale. Reinforced hub plate. Available on both size Hydro reflectors.

Tracer 180 Mount
A motorized, high-resolution horizon-to-horizon polar mount that traverses 180°. Available on the 7.5' Hydro only.

Patio Mount
Two ground runner poles with cross supports provide excellent stability. Telescoping tubes allow precise elevation adjustment. Available on the 6' Hydro only.

Hydro Mount (EP)
A preassembled, fully-adjustable polar mount used with a linear actuator. Nylitron fittings on pivot points. Available on the 7.5' Hydro only.

Specifications

	6' Hydro *1.8 m*	7.5' Hydro *2.4 m*
C Band Gain	35.9dB	37.8dB
Ku Band Gain	44.9dB	47.0dB
C Band Efficiency	63%	67%
2° Spacing Approved	Yes*	Yes
C Band 3dB Beam Width	2.9°	2.2°
C Band First Side Lobe	-21.0dB	-24.5dB
Ku Band Antenna Noise Temp. *@ 30° Elevation*	36° K	28° K
C Band Antenna Noise Temp. *@ 30° Elevation*	58° K	48° K
F/D	0.335	0.312
FP	23 1/8"	28 1/8"
Wind Survival *Please see warranty policy.*	80 mph *125 stowed*	80 mph *125 stowed*

**With opposite polarization of satellites.*

Warranty

All Paraclipse antennas have a five-year limited warranty. Please see warranty policy for details.

Checkout the Complete Paraclipse Lineup

For information on our full line of high-performance satellite antennas, contact:

Paraclipse®
HIGH PERFORMANCE ANTENNAS

Paraclipse Inc.
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Telephone: (402) 563-3625 FAX: (402) 564-2109

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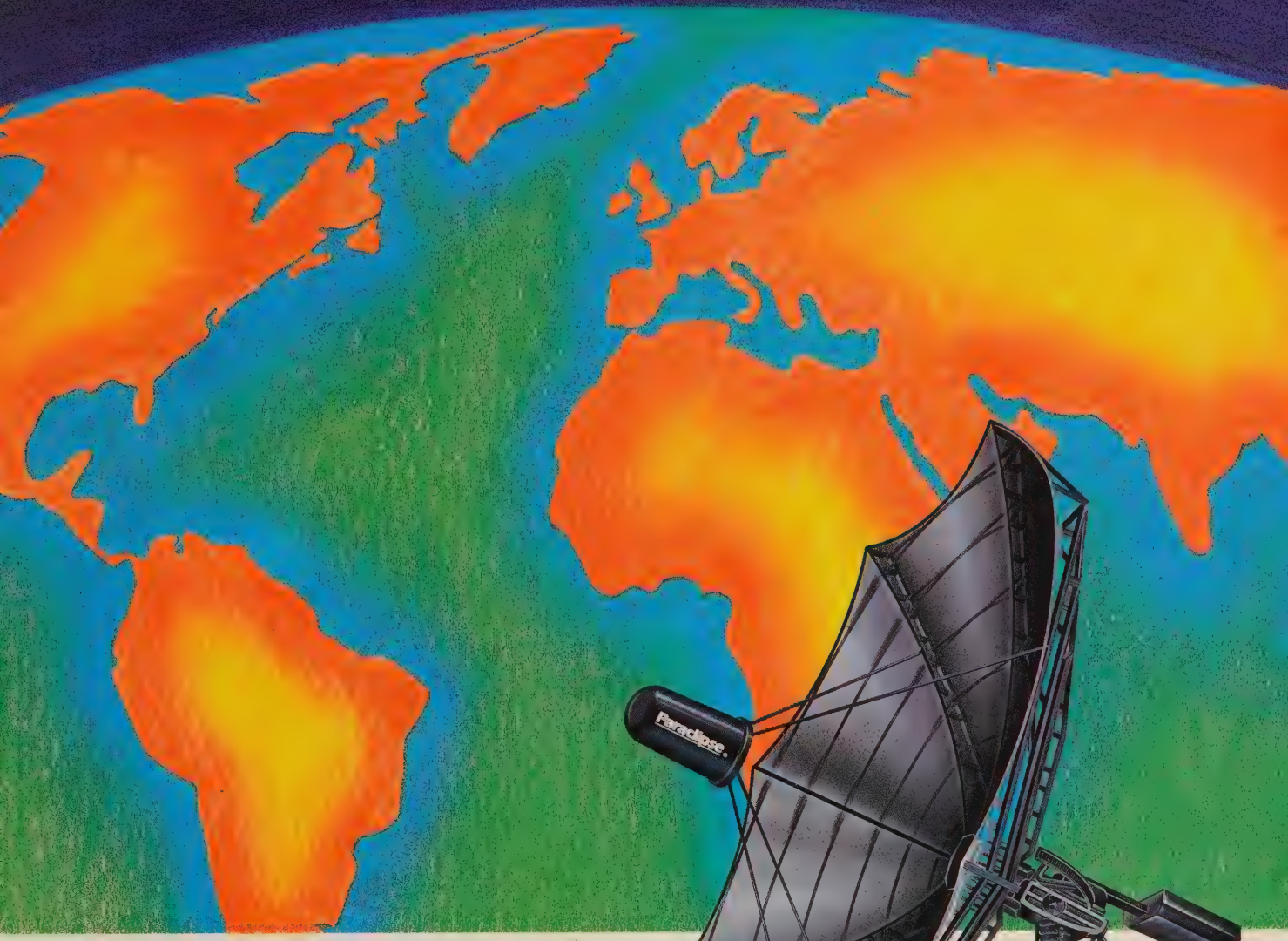
Paraclipse

Classic 12' CD & 14.5' CD

HORIZON-TO-HORIZON MOUNT



Unequaled Accuracy and Durability from Horizon to Horizon

Scan 180° of the Clark Belt with pinpoint accuracy with the Paraclipse Classic 12' and 14.5' CD antennas. With truss-ribbed strength and all-aluminum reflector and mount construction, you can count on exceptional performance year after year, even in the most demanding locations.

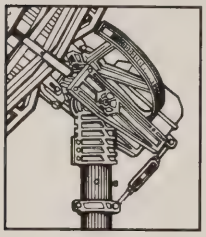
MADE IN AMERICA

Paraclipse®

HIGH PERFORMANCE ANTENNAS

Paraclipse®

Classic 12' CD & Classic 14.5' CD



CD Mount Delivers Precise, Horizon-to-Horizon Tracking

Our exclusive Classic 12' CD and 14.5' CD chain-driven mount tracks 180° with precision accuracy. Completely linear from extreme to extreme with accurate tuning at any position, this mount can handle both TVRO and professional applications. With heavy-duty, all-aluminum die-cast construction, this mount is especially good in marine environments where corrosion is a problem.

Built to Last

The Classic 12' CD and 14.5' CD antennas are precision engineered and built to the highest quality standards in the industry. The result is an antenna that stands up to nature's harshest environments better than any other TVRO antenna—from marine salt air, to gale-force winds to scorching desert heat and sand.

The exclusive Paraclipse design features:

- Truss-ribbed structure.
- Aluminum reflector.
- All-aluminum mounts.
- Reflectors sealed and hardened with a corrosion-resistant treatment.
- Wind-resisting support struts standard on 14.5' CD.

State-of-the-Art Accuracy

The professional accuracy delivered by the Classic 12' CD and 14.5' CD antennas means great reception day after day, year after year. With exceptional signal-distinguishing ability, this antenna handles 2° satellite spacing with no shadowing or signal distortion.

- Formed-mesh design assures the antenna retains its original parabolic shape.
- Unique fine-tune, feed-horn mounting plate allows easy and precise feed-horn adjustment—especially important for Ku band reception.
- Four-pole, feed-horn support stabilizes the feed horn and strengthens the reflector.
- Counterbalance, standard on 14.5' CD.

Optional features:

- All aluminum parts painted smoke-blue color.
- Stainless steel hardware.
- Counterbalance kit with 12' CD.
- Wind-resisting support struts on 12' CD.

Specifications

	Classic 12' CD *3.8m*	Classic 14.5' CD *4.5m*
C Band Gain	42.3dB	43.6dB
KU Band Gain	50.0dB	51.5dB
C Band Efficiency	70%	65%
2° Spacing Approved	Yes	Yes
C Band 3dB Beam Width	1.3°	1.2°
C Band First Side Lobe	-20.4dB	-20.0dB
C Band Antenna Temp. *@ 45° Elevation*	24° K	23° K
F/D	0.375	0.310
FP	52 5/8"	52 5/8"
Wind Survival *Please see warranty policy.*	80 mph *125 stowed*	80 mph *125 stowed*

Specifications are determined by range test or engineering computation methods.

Warranty

All Paraclipse antennas have a five-year limited warranty. Please see warranty policy for details.

Checkout the Complete Paraclipse Lineup

For information on our full line of high-performance satellite antennas, contact:

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Classic 10' PLUS, 12' PT & 14.5' ISLANDER

When Strength and Endurance are Essential

The Classic 10' Plus, 12' PT and 14.5' Islander are all built to the highest quality standards. The result is antennas that have a reputation of handling whatever nature can throw at them, and still deliver years of great reception.

The exclusive Paraclipse design features:

- Truss-ribbed structure.
- Heavy-gauge, steel mount.
- All steel components sealed and protected with a smoke-blue color, baked-on, powder-coat finish.
- Aluminum ribs and rings sealed and hardened with a corrosion-resistant treatment.

Years of Trouble-Free Performance

All three models are designed and built to retain their original shape, resulting in exceptional reception for years to come.

- Formed mesh design ensures that the antenna retains its original parabolic shape.
- Four-pole, feed-horn support stabilizes the feed horn and strengthens the reflector.
- Unique fine-tune, feed-horn mounting plate allows easy and precise feed-horn adjustment—especially important for Ku band reception.

The Courier-Deliverable Classic 10' PLUS

Packaged and shipped in compact boxes, this antenna is courier deliverable no matter where the address. Its unique design allows simple assembly and installation. The Classic 10' Plus also offers an additional standard feature: the reflector is sealed and protected with a smoke-blue color, baked-on, powder-coat finish.

The Sturdy Classic 12' PT

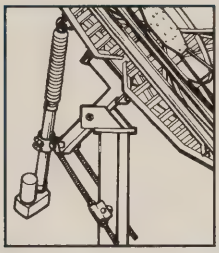
Precision engineered, like all Paraclipse antennas, this antenna sets the standards by which all others are measured.

The Wind-Resistant Classic 14.5' ISLANDER

The Classic 14.5' Islander is reinforced with additional wind-resistant struts, making it the ideal antenna for any exposed location, whether it be a Caribbean island or a wind-blown mountain top. The steel mount is fully protected with a smoke-blue color, baked-on, powder-coat finish.

Optional features:

- Stainless steel hardware.
- Galvanizing.
- Extreme weather kit.
- Smoke-blue color painted reflector. (12' PT and 14.5' Islander)



Polar T Mount Provides Accuracy and Economy

This heavy-duty steel polar mount provides a 110° traverse. With a linear actuator, the Polar T tracks with pinpoint accuracy and excellent stability.

Specifications

	Classic 10' PLUS *3.0 m*	Classic 12' PT *3.8 m*	Classic 14.5' ISLANDER *4.5 m*
C Band Gain	40.2dB	42.3dB	43.6dB
Ku Band Gain	49.0dB	50.0dB	51.5dB
C Band Efficiency	65%	70%	65%
2° Spacing Approved	Yes	Yes	Yes
C Band 3dB Beam Width	1.6°	1.3°	1.2°
C Band First Side Lobe	-19.0dB	-20.4dB	-20.0dB
C Band Antenna Noise Temp. *@ 45° Elevation*	35° K	24° K	23° K
F/D	0.352	0.375	0.310
FP	43"	52 5/8"	52 5/8"
Wind Survival *Please see warranty policy.*	80 mph *125 stowed*	80 mph *125 stowed*	80 mph *100 stowed*

Specifications are determined by range test or engineering computation methods.

Warranty

All Paraclipse antennas have a five-year limited warranty. Please see warranty policy for details.

Checkout the Complete Paraclipse Lineup

For information on our full line of high-performance satellite antennas, contact:

Paraclipse®
HIGH PERFORMANCE ANTENNAS

Paraclipse Inc.
2271 29th Avenue East, Columbus, NE USA 68601
Telephone: (402) 563-3625 FAX: (402) 564-2109

DEALER:

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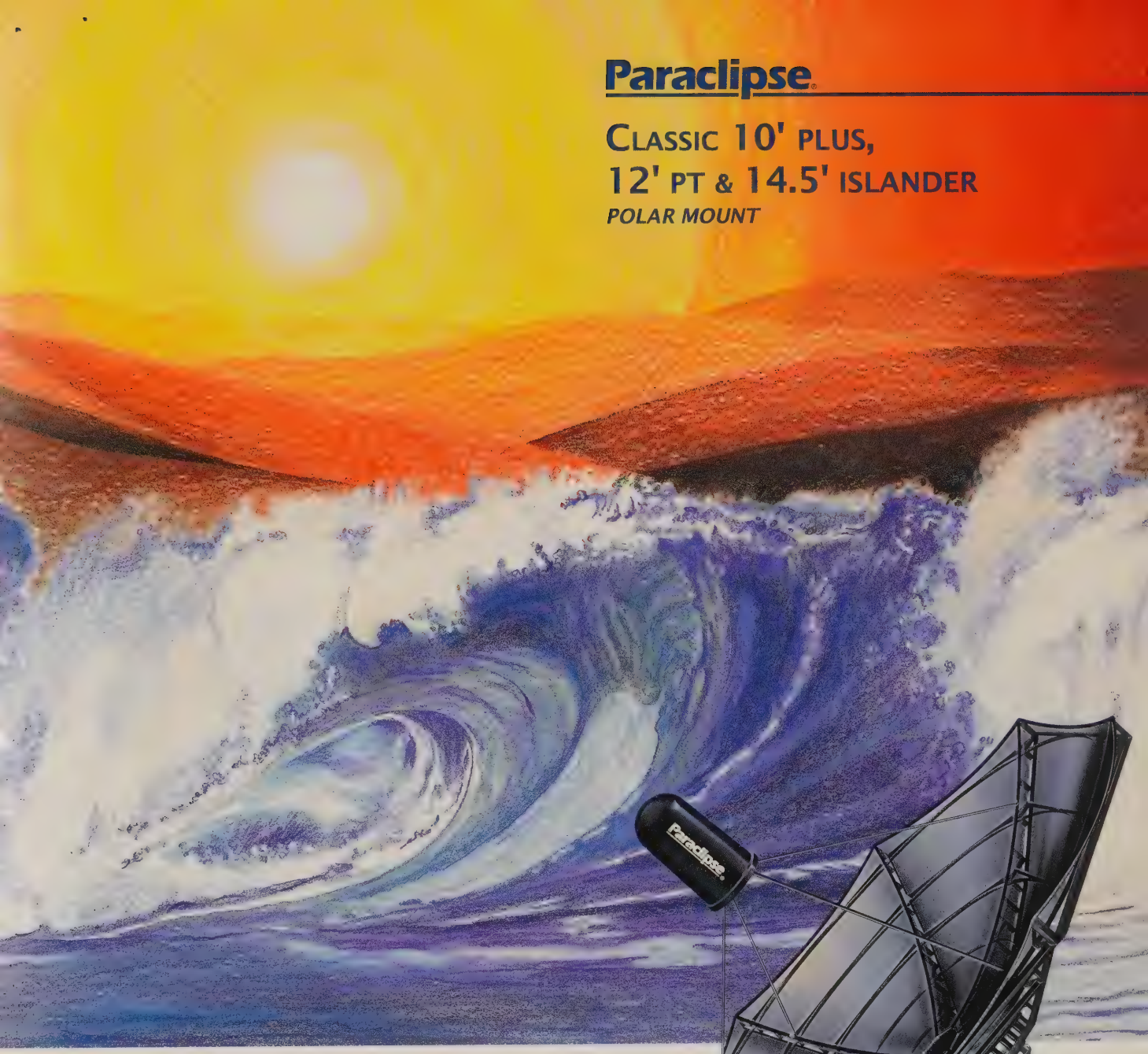
Paraclipse®

CLASSIC 10' PLUS, 12' PT & 14.5' ISLANDER

POLAR MOUNT



Built for the Earth's Toughest Environments

These Classic antennas feature the traditional strength and accuracy of Paraclipse's proven truss-ribbed construction and are designed to handle nature's harshest conditions better than any other TVRO antennas. With the addition of an economical linear drive, these Classics offer exceptional antenna value.

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ECLIPSE 10' & 12'

Exceptional Strength and Wind Resistance

Comprised of eighteen heavy-duty, over-dimensioned ribs and a large-diameter ring mount, the Eclipse is stronger than comparable antennas in its class. Plus, the formed mesh can be easily locked into the ribs, increasing wind resistance.

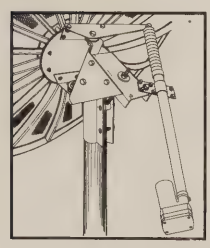
The Paraclipse Eclipse antennas feature:

- Parabolic ribs, 50% larger than competitive models.
- Eclipse 12' is reinforced with an intermediate mesh supporting ring.
- Heavy-gauge, steel mount.
- All steel and aluminum parts sealed and protected with a smoke-blue color, baked-on, powder-coat finish.

Accurate Reception

The Eclipse's parabolic accuracy delivers outstanding reception day after day, year after year.

- Formed mesh design ensures that the antenna retains its original parabolic shape.
- Unique fine-tune, feed-horn mounting plate allows easy and precise feed horn adjustment—especially important for Ku band reception.
- Three-pole, feed-horn support stabilizes the feed horn and strengthens the reflector.



Preassembled Mount Offers Pinpoint Accuracy

A preassembled fully-adjustable polar mount with Nylitron fittings on pivot points. With a linear actuator, the Eclipse Deluxe Polar Mount tracks 110° with pinpoint accuracy.

Courier Deliverable

Packaged and shipped in compact boxes, the Eclipse antennas are courier deliverable, no matter where the address. Plus, its simple design and preassembled mount allows quick assembly and installation.

Specifications

	Eclipse 10' *3.0 m*	*Eclipse 12'* *3.8 m*
C Band Gain	40.8dB	41.9dB
Ku Band Gain	48.2dB	49.6dB
C Band Efficiency	65%	63%
2° Spacing Approved	Yes	Yes
F/D	0.30	0.333
FP	35 7/8"	47 7/8"
Wind Survival *Please see warranty policy.*	70 mph *100 stowed*	70 mph *100 stowed*

Specifications are determined by range test or engineering computation methods.

Warranty

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Paraclipse

Eclipse 10' & 12'

Deluxe Polar Mount

Strength and Accuracy Even in Remote Locations

The Eclipse antenna combines outstanding performance with excellent value. Add the fact that this antenna is courier deliverable—and easily assembled and installed—and you have an antenna destined to be a worldwide winner.

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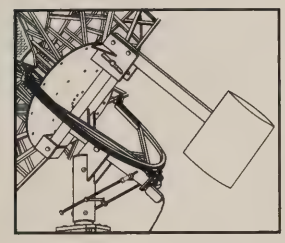
Paraclipse

Classic 16' CD



CD Mount Delivers Precise, Horizon-to-Horizon Tracking

The Classic 16' CD mount tracks 180° with precision accuracy. Completely linear from extreme to extreme with exact "counts" when traversing for accurate tuning at any position. The heavy-duty, painted-steel mount has stainless steel hardware and is counterweighted for balance.

Built to Stand the Test of Time

The Classic 16' CD has set the standards by which all other antennas are judged. Used around the world, this antenna delivers reliable performance and critical accuracy under even the most demanding environmental conditions—from scorching desert heat to gale-force marine winds.

The exclusive Paraclipse design features:

- Engineering for commercial applications.
- Oversized, truss-ribbed structure.
- Heavy-gauge, all-steel mount.
- Aluminum reflector.
- All steel and aluminum components are sealed and protected with a tan-colored, baked-on, powder-coat finish.

Pinpoint Accuracy

The exceptional reception and signal-distinguishing abilities delivered by the Classic 16' CD are other key reasons this antenna is the professional's choice.

- Unique fine-tune, feed-horn mounting plate allows easy and precise feed-horn adjustment—especially important for Ku band reception.
- Tower mounted for rock-solid stability.
- Counterweighted for exceptional balance.
- Four-pole, feed-horn support stabilizes the feed horn and strengthens the reflector.

Optional features:

- Galvanized steel mount and tower.

Specifications

	Classic 16' CD *4.8 m*
C Band Gain	44.8dB
Ku Band Gain	52.3dB
C Band Efficiency	65%
2° Spacing Approved	Yes
C Band 3dB Beam Width	.9°
C Band First Side Lobe	-20.0dB
C Band Antenna Noise Temperature *@ 45° Elevation.*	21° K
F/D	0.30
FP	57"
Wind Survival *Please see warranty policy.*	80 mph *125 stowed*

Specifications are determined by range test or engineering computation methods.

Warranty

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2271 29th Avenue East, Columbus, NE USA 68601
Telephone: (402) 563-3625 FAX: (402) 564-2109

DEALER:

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Professional Strength and Pin-Point Accuracy

Engineered for commercial applications, the Classic 16' CD has achieved worldwide acceptance as a high-performance professional antenna. In addition, it offers an economical solution for demanding TVRO applications. This truss-ribbed antenna stands up to nature's harshest environments while delivering exceptional reception—day after day, year after year.

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HIGH PERFORMANCE ANTENNAS

The Apparelclipse Shop
Paraclipse Embroidered Apparel

40950 Jacket w/zipper

Sizes: S, M, L, XL, XXL

Nylon satin shell. Flannel lining. Reinforced slash pockets. Full front heavy nylon zipper. Water repellent. Machine washable.

40949 Windbreaker

Sizes: S, M, L, XL, XXL

Half-front zipper. Drawstring hood. Zipper pouch pocket w/flap. Jacket folds into zipper pouch with pocket w/drawstring for easy carrying. Water repellent. Machine washable.

40952 Polo Shirt

Sizes: S, M, L, XL, XXL

Fabric: 50% Great Feelings polyester/50% combed cotton. White pearl buttons. Tailored construction. Fashion knit collar. Welt cuffs. Pocketed Polo Shirts also available.

40953 Caps

Sizes: Adjustable headband.

Quality 100% Poplin cotton twill. Satin, Hawaiian & Tie-Dye also available.

Paraclipse
HIGH PERFORMANCE
ANTENNAS

Robert B. Cooper
FAR NORTH CABLEVISION Limited
P.O. Box 330, Mangonui, Far North
New Zealand
FAX: 64-9-406-1083

26 April 1994

Sales Manager
PARACLIPSE, Inc.
2271 29th Avenue East
Columbus, Nebraska
68601 USA

Good Day-

Far North Cablevision, Limited is a privately owned company acting as a combination of manufacturer's representative and sales coordinator for firms wishing to do business inside of New Zealand in the satellite and cable TV fields. A division of our company also does on-site designing of CATV and SMATV systems and follows that up with turn-key installation of the systems for clients.

At this time we are the exclusive representatives for a sizeable list of US suppliers including Blonder Tongue Labs, (Inc.), C-COR (cable TV electronics), Toner Cable Equipment Co. and others.

And because I was a participant in the 'birth' of the home satellite television industry in the United States, I already have considerable familiarity with your Paraclipse product line. In fact, the number 2 and 3 serial number versions of your 5 meter HTH antenna were installed by me.

I require the addition of a quality line of DTH antenna products to my line, including some that are also suitable for SMATV installations. I would like to be in a position to offer Paraclipse for this purpose.

Initially, we will purchase small quantities at any one time (5 or fewer, mixed sizes) but by mid 1995 the orders should be several times that size.

The satellite scene is just now taking form in the South Pacific and until the launch of PanAmSat (June 22) with DTH level signals (CNN, ESPN, TNT et al) we are in a holding a planning pattern. By September-October, given the arrival of programming from PanAmSat, and by mid 1995 additional programming from AsiaSat 2 (100.5 degrees east) and Palapa 2R (113 east), we should be in high gear.

Can we do business?

Sincerely,

Robert B. Cooper
enc: CTD issue 9312/ December 1993

16' Classic CD:

* 16' Classic CD is tower-mounted.

* This antenna is accurate, strong, rugged, and built for tough environment application with commercial installation in mind.

* The professionally engineered tower meets the strictest codes and specifications.

* The 16' Classic is H-H chain driven.

* Antenna comes fully painted in Beige *(Powder Coating).*

Classic Line – 10', 12' & 14.5:

* Paraclipse's signature trademark antennas.
* Excellent for C & Ku Band.
* Strong, rugged construction.
* Built for commercial and high end-users: cable companies, radio stations, head-end systems for hotels and motels.
* All steel parts are always weather protected with our powder coated, oven-baked finish.
* For home owners who want the best.

10' Classic:

* UPS Shippable.
* Polar-T style mount only.
* Comes fully painted Smoke Blue *(Powder Coating).*

12' Classic:

* Polar-T and H-H mounts offered.
* Comes in natural aluminum bright dipped finish or optional fully painted Smoke Blue *(Powder Coating).*

14.5' Classic:

* Polar-T mounts on the Islander version and H-H mounts offered.
* Comes in natural aluminum bright dipped finish or optional fully painted Smoke Blue *(Powder Coating).*

Paraclipse®
HIGH PERFORMANCE ANTENNAS
Your Complete Reflector Source

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